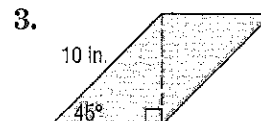
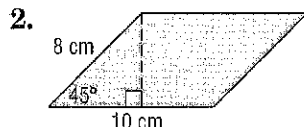
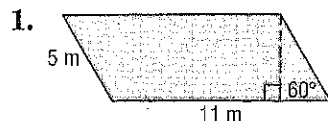
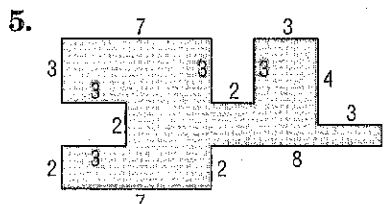
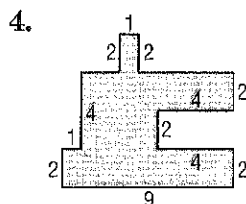


11-1 Practice**Area of Parallelograms**

Find the perimeter and area of each parallelogram. Round to the nearest tenth if necessary.



Find the area of each figure.



COORDINATE GEOMETRY Given the coordinates of the vertices of a quadrilateral, determine whether it is a *square*, a *rectangle*, or a *parallelogram*. Then find the area of the quadrilateral.

6. $C(-4, -1)$, $D(-4, 2)$, $F(1, 2)$, $G(1, -1)$

7. $W(2, 2)$, $X(1, -2)$, $Y(-2, -2)$, $Z(-1, 2)$

~~8. $M(0, 4)$, $N(4, 6)$, $O(6, 2)$, $P(2, 0)$~~

~~9. $P(-5, 2)$, $Q(4, 2)$, $R(5, 5)$, $S(-4, 5)$~~

FRAMING For Exercises 10–12, use the following information.

A rectangular poster measures 42 inches by 26 inches. A frame shop fitted the poster with a half-inch mat border.

10. Find the area of the poster.

11. Find the area of the mat border.

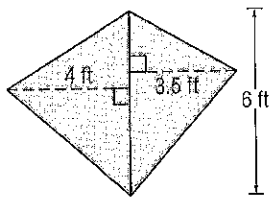
12. Suppose the wall is marked where the poster will hang. The marked area includes an additional 12-inch space around the poster and frame. Find the total wall area that has been marked for the poster.

11-2 Skills Practice

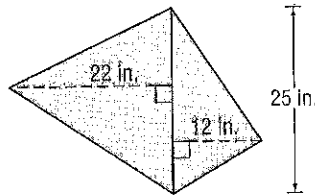
Areas of Triangles, Trapezoids, and Rhombi

Find the area of each figure. Round to the nearest tenth if necessary.

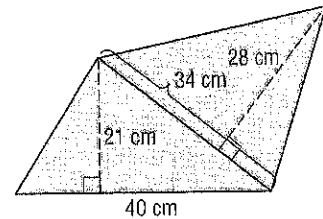
1.



2.



3.



Find the area of each quadrilateral given the coordinates of the vertices.

4. trapezoid $WXYZ$

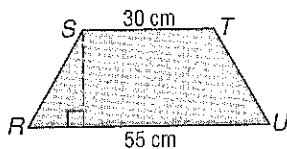
$W(-5, 3), X(3, 3), Y(6, -3), Z(-8, -3)$

5. rhombus HJK

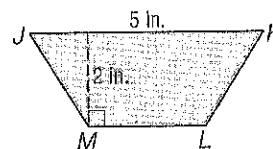
$H(4, -3), I(2, -7), J(0, -3), K(2, 1)$

Find the missing measure for each figure.

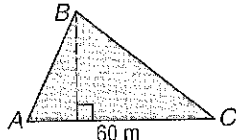
6. Trapezoid $RSTU$ has an area of 935 square centimeters. Find the height of $RSTU$.



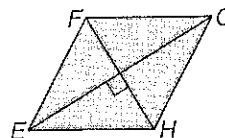
7. Trapezoid $JKLM$ has an area of 7.5 square inches. Find ML .



8. Triangle ABC has an area of 1050 square meters. Find the height of $\triangle ABC$.



9. Rhombus $EFGH$ has an area of 750 square feet. If EG is 50 feet, find FH .



11-3 Skills Practice

Areas of Regular Polygons and Circles

Find the area of each regular polygon. Round to the nearest tenth.

1. a pentagon with a perimeter of 45 feet
2. a hexagon with a side length of 4 inches
3. a nonagon with a side length of 8 meters
4. a triangle with a perimeter of 54 centimeters

Find the area of each circle. Round to the nearest tenth.

5. a circle with a radius of 6 yards
6. a circle with a diameter of 18 millimeters

Find the area of each shaded region. Assume that all polygons are regular. Round to the nearest tenth.

